## Multimedia Appendix 1: Summary of the reviewed studies (n=33).

| Study (Year)   | Study Objective  | Study Design                                    | Data Analysis<br>Method  | Samples/<br>Participant  | Type of SNS                  | Conclusion/<br>Recommendations  |
|--|--|---|--|--|------------------------------|---|
| Desselle (2017)<br>[1]   | ·  | Cross-<br>sectional<br>survey<br>(quantitative) | Descriptive<br>analysis  | 67 pharmacy<br>students  | Twitter                      | The Twitter assignment was useful in students' learning. Students reported high levels of engagement in a course that previously had not been evaluated very highly.            |
| Flynn et al.<br>(2017)<br>[2]  |  | l   | interventions<br>on clicks to a<br>single landing<br>site<br>ii. Thematic<br>analysis on | the landing<br>site  | Facebook and<br>Twitter      | Among the different<br>modalities tested,<br>Facebook led to the<br>highest click-through<br>rate.  |
| Ganasegeran,<br>Renganathan,<br>Rashid, & Al-<br>Dubai (2017)<br>[3] | benefits, if any, of WhatsApp  | Cross-<br>sectional<br>Survey<br>(quantitative) |  | 307 medical<br>and<br>emergency<br>department<br>staff (nurses,<br>medical<br>assistants,<br>medical<br>residents,<br>medical<br>officers and<br>physicians) | WhatsApp<br>Messenger        | WhatsApp was beneficial in clinical practice. Perceived benefits were significantly associated with usage characteristics and types of communication events.                    |
| Rawson, &  | use social networking for professional purposes to   | Cross-<br>sectional<br>survey<br>(quantitative) | Descriptive<br>analysis  | 186<br>radiologists  | Any types of<br>social media | Radiology is likely to see growth in the number of users and in the role of social networking in the coming years, as nearly half of professional users are radiology trainees. |
| Raiman,<br>Antbring, &<br>Mahmood<br>(2017)<br>[5]                   | To demonstrate the feasibility and acceptability of instant messaging communication to supplement medical education for medical students while on clinical | Mixed<br>methods<br>(qualitative)               | Thematic<br>analyses on<br>i. content of<br>WhatsApp<br>messages and<br>ii. structured   | i. 582<br>messages<br>ii. 19 third<br>year medical<br>students   | WhatsApp<br>Messenger        | The results indicate the utility, feasibility and acceptability of WhatsApp Messenger in supplementing  |

|                  | attachment                      |                | interviews      |                 |              | 'problem-based              |
|------------------|---------------------------------|----------------|-----------------|-----------------|--------------|-----------------------------|
|                  |                                 |                |                 |                 |              | learning' teaching.         |
|                  | To investigate the professional |                | Thematic        |                 | Any types of | Participants used social    |
|                  | ,                               | qualitative    | 1 '             | pharmacists     | social media | media in a professional     |
| Chaar, & Aslani  | pharmacists                     | study          | the semi-       |                 |              | capacity, specifically for  |
| (2016)           |                                 | (qualitative)  | structured      |                 |              | accessing and sharing       |
| [6]              |                                 |                | interviews      |                 |              | health and professional     |
|                  |                                 |                |                 |                 |              | information among           |
|                  |                                 |                |                 |                 |              | peers.                      |
| Goff et al.      | To evaluate Twitter as a tool   | Mixed          | i. Content      | i. 5117 tweets  | Twitter      | Twitter engaged             |
| (2016)           | to                              | methods        | analysis of     |                 |              | surgeons in ID and          |
| [7]              | engage and educate surgeons     | (qualitative   | tweets          | ii. 21 Surgeons |              | antimicrobial               |
|                  | in emerging infectious disease  | and            |                 |                 |              | stewardship topics and      |
|                  | (ID) topics on antibiotic       | quantitative)  | ii. Descriptive |                 |              | provided real-time          |
|                  | resistance and antimicrobial    |                | analysis of     |                 |              | education around            |
|                  | stewardship                     |                | survey          |                 |              | antimicrobial resistance.   |
| Gulacti, Lok,    | To evaluate WhatsApp            | Retrospective  | Content         | 519             | WhatsApp     | WhatsApp is a useful        |
| Hatipoglu, &     |                                 | observational  | analysis of     | consultations   | Messenger    | communication tool          |
| Polat (2016)     | communication between           | study          | WhatsApp        | requested by    |              | between physicians,         |
| [8]              | consulting and emergency        | (qualitative)  | messages        | physicians      |              | especially for              |
|                  | physicians.                     |                |                 |                 |              | emergency department        |
|                  |                                 |                |                 |                 |              | consultants who are         |
|                  |                                 |                |                 |                 |              | outside the hospital,       |
|                  |                                 |                |                 |                 |              | because of the ability to   |
|                  |                                 |                |                 |                 |              | transfer large amounts      |
|                  |                                 |                |                 |                 |              | of clinical and             |
|                  |                                 |                |                 |                 |              | radiological data during    |
|                  |                                 |                |                 |                 |              | a short period of time.     |
| Lofters, Slater, | To implement and evaluate a     | Participatory  | i. Content      | 26 physicians   | Facebook     | The implementation of a     |
| Angl, & Leung    | private Facebook group for      | action         | analysis of     | and some        |              | private Facebook group      |
| (2016)           | members of a large Ontario      | research       | Facebook        | nurses,         |              | for a large, multisite FHT  |
| [9]              | multisite Family Health Team    | (mixed         | posts           | dieticians,     |              | was ultimately not          |
|                  | (FHT) to facilitate improved    | methods,       | ii. descriptive | psychologists   |              | successful.                 |
|                  | communication and               | qualitative    | analysis of     | and other       |              |                             |
|                  | collaboration.                  | and            | survey          | health          |              |                             |
|                  |                                 | quantitative)  |                 | professionals   |              |                             |
| Nikiphorou et    | To explore perceptions,         | Cross-         | Descriptive     | 233             | Any types of | There was a substantial     |
| al. (2016)       | barriers and patterns of social | sectional      | analysis        | rheumatologis   | social media | use of social media by      |
| [10]             | media use among                 | survey         |                 | ts              |              | rheumatologists and         |
|                  | rheumatology fellows and        | (quantitative) |                 |                 |              | basic scientists for social |
|                  | basic scientists.               |                |                 |                 |              | and professional            |
|                  |                                 |                |                 |                 |              | reasons. The survey         |
|                  |                                 |                |                 |                 |              | highlights a need to        |
|                  |                                 |                |                 |                 |              | provide learning            |
|                  |                                 |                |                 |                 |              | resources and increase      |
|                  |                                 |                |                 |                 |              | awareness of the use of     |
|                  |                                 |                |                 |                 |              | social media.               |
| Reames,          | To evaluate the use of Twitter  | Prospective    | i. Descriptive  | 61 third-year   | Twitter      | Applications such as        |
| Sheetz,          | as a novel educational tool in  | observational  | analysis of     | medical         |              | Twitter can be facile       |
| Englesbe, &      | a medical school surgery        | study          | survey          | students        |              | educational tools to        |

| Waits (2016)<br>[11]  | clerkship.   |   | ii. Statistical<br>analysis of<br>aggregate test<br>scores |                          |                              | supplement and enhance the experience of students on a medical school clerkship.  |
|---|--|---|--|--------------------------|------------------------------|---|
| Siegal, Dagan,<br>Wolf,<br>Duvdevani, &<br>Alon (2016)<br>[12]                    | To present the experience and practices governing the usage of WhatsApp, including data protection and privacy, of a national cohort of practicing otolaryngologists in Israel.                                |   |  | 69<br>otolaryngolog<br>y | WhatsApp<br>Messenger        | The need to incorporate personal mobile devices in the overall information technology standards, guidelines, and regulation is becoming more acute.                                       |
| Winandy,<br>Kostkova, de<br>Quincey, St<br>Louis, &<br>Szomszor<br>(2016)<br>[13] | defines and analyses the impact, outreach, and   | Mixed<br>methods<br>(qualitative<br>and<br>quantitative)                    |  |                          |                              | A mix of Twitter, email,<br>and a website can be<br>recommended to  |
| Barry &<br>Pearson (2015)<br>[14]   | To characterize the use of social media by pharmacists in the Canadian province of Alberta and to identify independent determinants of and perceived barriers to using social media for professional purposes. | (quantitative<br>and  | analysis of survey   |                          | Any types of<br>social media | Individuals and organizations seeking to expand their professional social media presence should focus on Twitter.   |
| Samarasekera,   | To explore users' perception of the online community of practice in LinkedIn, and to identify features to aid the design and facilitation of similar online communities.                                       | Participatory action research (mixed methods, quantitative and qualitative) | 1  | 4106<br>Surgeons         | LinkedIn                     | LinkedIn can serve as an effective online community of practice for hand surgeons to share knowledge and best practices.  |
| Fuoco &<br>Leveridge<br>(2015)<br>[16]  | To understand the attitudes<br>and practices of urologists<br>regarding social media use.  | Cross-<br>sectional<br>survey<br>(quantitative)                             | Descriptive<br>analysis                                    | 229 urologists           | Any types of<br>social media | Practicing urologists engage infrequently in social media activities, and are almost universal in avoiding social media for professional use. Most feel that social media is best kept to |

| Johnston et al.<br>(2015)<br>[17]                                | of WhatsApp messaging service within emergency surgical teams.   | Mixed<br>methods<br>(qualitative<br>and<br>quantitative)                       | communicatio<br>n events<br>ii. Thematic<br>analysis of<br>semi- | communicatio   | WhatsApp<br>Messenger                         | exchanges between colleagues. The WhatsApp platform was deemed to be userfriendly and was extensively used to facilitate communication within a team.  |
|--|--|--|--|--|---|--|
| Mawdsley &<br>Schafheutle<br>(2015)<br>[18]                      | teaching using social media  | Exploratory participatory design (mixed methods, quantitative and qualitative) | survey<br>ii. Content  | i. 48<br>pharmacy<br>students<br>ii. 142 active<br>followers | Facebook                                      | This evaluation demonstrates that students engage in social media learning, particularly if it is perceived as having a direct benefit to assessment.  |
| Narayanaswam<br>i et al. (2015)<br>[19]                          |  | Longitudinal,<br>observational<br>study<br>(quantitative)                      |  |  | YouTube,<br>Facebook,<br>Twitter,<br>LinkedIn | Social media-based dissemination methods did not confer additional benefits over print-, email-, and Internet-based methods in increasing guideline awareness and changing intent in physicians or patients.             |
| Maisonneuve,<br>Chambe,<br>Lorenzo, &<br>Pelaccia (2015)<br>[20] | To explore the use of a social network site for asynchronous distance learning in a blended learning environment, as well as its influence on learners' face-to-face interactions. | cohort study   | analysis of  |  | Any types of<br>social media                  | Most of the general practice residentshad a positive appraisal on their use of SNS. We reported a positive impact on their engagement inlearning and their participation in discussions during face-to-face instruction. |
| Loeb et al.<br>(2014)<br>[21]                                    | social media among members<br>of the American Urological<br>Association.   |  | survey   |  | Any types of<br>social media                  | Most urologists and urology trainees used some forms of social media, and its use in urology conferences has greatly expanded.   |

| Lipp, Davis,<br>Peter, & Davies<br>(2014)<br>[22]                | YouTube and Twitter among a<br>group of health care<br>professionals studying for a<br>diploma in diabetes. | Participatory<br>action<br>research<br>(mixed<br>methods,<br>quantitative<br>and<br>qualitative) | analysis of<br>survey | (nurse,<br>physicians,<br>pharmacists,<br>dietitian) | Twitter                      | Health professionals from a diverse background were able to adopt and effectively utilise social media platforms such as Twitter and YouTube to deliver health care  |
|--|---|--|-----------------------|--|------------------------------|--|
| Kostka-Rokosz,<br>Camiel, &<br>McCloskey<br>(2014)<br>[23]       | 1   | Cross-<br>sectional<br>survey<br>(quantitative)  |                       | 551 pharmacy<br>students                             |                              | messages. This project exposed students to an educational application of Facebook and encouraged them to explore and engage with social media as a way to facilitate their early professional development.   |
| Keller,<br>Labrique, Jain,<br>Pekosz, &<br>Levine (2014)<br>[24] | · ·   | Cross-<br>sectional<br>survey<br>(quantitative)  | analysis              | 181 faculty in<br>public<br>health                   | Any types of<br>social media | A small minority are actually engaged in social media professionally, whereas most are either disinterested or actively opposed to professional engagement. Social media is seen by most as more useful for spreading information than obtaining it. |
| Morley (2014)<br>[25]  | additional online<br>communication support<br>mechanisms by student   | Mixed<br>methods<br>(qualitative<br>and<br>quantitative)   |                       | nurses   | Facebook and<br>wiki group   | Recommend using online communication tools already familiar to students to complement the support mechanisms that exist for practice learning.   |
| Cain, Scott,<br>Tiemeier,<br>Akers, &<br>Metzger (2013)<br>[26]  | use by pharmacy faculty   | Cross-<br>sectional<br>survey<br>(quantitative)  |                       | 159 pharmacy<br>faculty                              | social media                 | A majority of pharmacy faculty members have an online social media presence, with Facebook being the most common application.  |

| Deen, Withers,<br>& Hellerstein     | To better understand mental health providers' practices  | Cross-<br>sectional                             |   |  | Any types of social media | Mental health care professionals are  |
|-------------------------------------|--|---|---|--|---------------------------|---|
| (2013)<br>[27]                      | and attitudes regarding<br>internet and social media.  | survey<br>(quantitative)                        |   | and<br>psychologists   |                           | starting to incorporate Internet technologies into their professional lives, but they remain divided on the ethics and utility of using these technologies in clinical care.  |
| Dieleman &<br>Duncan (2013)<br>[28] | To gain an understanding of the purpose and use of online discussion groups for health professionals who may be practically and geographically isolated from others in similar areas of practice | Case study<br>design<br>(qualitative)           | analysis of<br>communicatio<br>n in the | occupational<br>therapists (no.<br>not specified);<br>2494 posts                             |                           | Health professionals in specialized and often isolated areas of practice are keento connect with colleagues and learn from each other's experiences. Onlinediscussion groups could be used for communication, information sharing and networking. |
| Gruzd &                             | To demonstrate how social  | Cross-<br>sectional                             |   | 3871 tweets<br>and 486   | Twitter                   | Network analysis and visualizations provide   |
| te (2013)                           | network analysis provides a vocabulary and set of  | study   | analysis and<br>social network          |  |                           | techniques and a  |
| [29]                                | techniques for examining<br>interaction patterns via social<br>media.  | (qualitative)                                   | analysis                                | posters in the<br>Health Care<br>Social Media<br>Canada<br>(#hcsmca)<br>Twitter<br>community |                           | vocabulary for understanding online interaction, as well as insights that can help in understanding what, and who, comprises and sustains a network, and whether community emerges from a network of online interactions.                         |
|                                     | To determine students'   | Participatory                                   | i. Descriptive                          |  | Sina Weibo                | MBC appears to be a   |
| Shi (2013)<br>[30]                  | attitudes toward microblog-<br>based case studies (MBC) in a<br>pharmacotherapy class  | (mixed  | survey                                  | pharmacy<br>students   |                           | well-accepted learning method for students in this study.   |
|                                     |  | methods,<br>quantitative<br>and<br>qualitative) | analysis of<br>messages                 | ii. 592<br>messages  |                           |   |
| Wani, Rabah,                        | To assess the efficacy of  | Prospective                                     | i. Descriptive                          | i. 40 plastic  | WhatsApp                  | This new method of  |
| Alfadil,<br>Dewanjee, &             | smartphones and the<br>WhatsApp application as a   | cohort study<br>(mixed                          | analysis of<br>survey                   | surgeons   | Messenger                 | communication is an effective method for  |
| Najmi (2013)                        | communication method   | methods,  |   | ii. 116  |                           | clinical and academic   |
| [31]                                | among the staff of plastic and reconstructive surgery section  | quantitative<br>and                             |   | episodes   |                           | endorsements. The method is cheap and   |
|                                     | at a tertiary care health  | qualitative)                                    | messages                                |  |                           | quick and easy to   |

|   | facility.  |   |                         |  |                           | operate.  |
|---|--|---|-------------------------|--|---------------------------|---|
| Stevens,<br>Hamilton,<br>O'Donoghue, &<br>Davies (2012)<br>[32] | <b>0</b> 77  |   | Descriptive<br>analysis |  | Web<br>2.0                | Most plastic surgeons<br>either used Web 2.0<br>technology or were<br>aware of it.  |
| Wang et al<br>(2012)[33]  | To conduct a cross-sectional survey of US physicians attending a Mayo Clinic | Cross-<br>sectional<br>survey<br>(quantitative) | Descriptive<br>analysis | 327 Participants of the Mayo School of Continuous Professional Development | Any types of social media | The most fruitful categories of SM for CME use and marketing may be Facebook, YouTube, and Skype. The identified association between positive attitudes on using SM in CME with younger age and increased frequency of SM use suggests that CME course directors might want to direct SM learning strategies toward more youthful, technology-savvy CME physicians. |

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